



**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of [REDACTED]

Docket No: Q76616

Hiroshi SUMI, et al.

Appln. No.: 10/620,346

Group Art Unit: Not Yet Assigned

Confirmation No.: Not Yet Assigned

Examiner: Not Yet Assigned

Filed: July 17, 2003

For: COPPER PASTE, WIRING BOARD USING THE SAME, AND PRODUCTION  
METHOD OF WIRING BOARD

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 and 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents, other than any U.S. patents and patent publications, is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under § 1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant submits the following explanations:

U.S. Patent No. 4,234,367 corresponds to JP-A-55-128899

INFORMATION DISCLOSURE STATEMENT

U.S. Appln. No.: 10/620,346

U.S. Patent No. 4,816,615 corresponds to JP-A-01-128488

U.S. Patent No. 4,880,567 corresponds to JP-A-01-128488

U.S. Patent No. 5,336,444 corresponds to JP-A-06-56545

U.S. Patent No. 5,468,445 corresponds to JP-A-06-56545

The attached English language Abstracts constitute a concise explanation of relevance for JP 55-128899, JP 1-128488, JP 5-81922, JP 5-243700, JP 6-56545, JP 8-148783, JP 10-95686, JP 11-284296, and JP 2578273.

The attached English language translation of Claim 1 constitutes a concise explanation of relevance for JP 63-174203.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account. A duplicate copy of this paper is attached.

Respectfully submitted,



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WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: October 28, 2003

Substitute for Form 1449 A &amp; B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

*Complete if Known*

|                        |                  |
|------------------------|------------------|
| Application Number     | 10/620,346       |
| Confirmation Number    | Not Yet Assigned |
| Filing Date            | July 17, 2003    |
| First Named Inventor   | Hiroshi SUMI     |
| Art Unit               | Not Yet Assigned |
| Examiner Name          | Not Yet Assigned |
| Attorney Docket Number | Q76616           |

Sheet

of 1

**U.S. PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Document Number |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
|-----------------------|--------------------------|-----------------|--------------------------------------|--------------------------------|---|
|                       |                          | Number          | Kind Code <sup>2</sup><br>(if known) |                                |   |
|                       |                          | US 4,234,367    |                                      | 11-18-1980                     | HERRON et al.                                   |
|                       |                          | US 4,816,615    |                                      | 03-28-1989                     | PRABHU et al.                                   |
|                       |                          | US 4,880,567    |                                      | 11-14-1989                     | PRABHU et al.                                   |
|                       |                          | US 5,336,444    |                                      | 08-09-1994                     | CASEY et al.                                    |
|                       |                          | US 5,468,445    |                                      | 11-21-1995                     | CASEY et al.                                    |
|                       |                          | US              |                                      |                                |   |
|                       |                          | US              |                                      |                                |   |
|                       |                          | US              |                                      |                                |   |
|                       |                          | US              |                                      |                                |   |

**FOREIGN PATENT DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Foreign Patent Document      |                     |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or<br>Applicant of Cited Document | Translation <sup>6</sup> |
|-----------------------|--------------------------|------------------------------|---------------------|--------------------------------------|--------------------------------|--|--------------------------|
|                       |                          | Country<br>Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |                                |  |                          |
|                       |                          | JP                           | 55-128899           |                                      | 10-06-1980                     | IBM CORP   | Abstract                 |
|                       |                          | JP                           | 63-174203           |                                      | 07-18-1988                     | FUJITSU LTD  | Claim 1                  |
|                       |                          | JP                           | 1-128488            |                                      | 05-22-1989                     | GENERAL ELECTRIC CO                                | Abstract                 |
|                       |                          | JP                           | 5-81922             |                                      | 04-02-1993                     | ASAHI GLASS CO LTD                                 | Abstract                 |
|                       |                          | JP                           | 5-243700            |                                      | 09-21-1993                     | FUJITSU LTD  | Abstract                 |
|                       |                          | JP                           | 6-56545             |                                      | 03-01-1994                     | INT BUSINESS MACHINES CORP                         | Abstract                 |
|                       |                          | JP                           | 8-148783            |                                      | 06-07-1996                     | KYOCERA CORP                                       | Abstract                 |
|                       |                          | JP                           | 10-95686            |                                      | 04-14-1998                     | KYOCERA CORP                                       | Abstract                 |
|                       |                          | JP                           | 11-284296           |                                      | 10-15-1999                     | KYOCERA CORP                                       | Abstract                 |
|                       |                          | JP                           | 2578273             |                                      | 11-07-1996                     | DAIICHI KOGYO SEIYAKU CO LTD                       | Abstract                 |
|                       |                          |                              |                     |                                      |                                |  |                          |
|                       |                          |                              |                     |                                      |                                |  |                          |

**NON PATENT LITERATURE DOCUMENTS**

| Examiner<br>Initials* | Cite<br>No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation <sup>6</sup> |
|-----------------------|--------------------------|--|--------------------------|
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|--------------------|-----------------|
| Examiner Signature | Date Considered |
|--------------------|-----------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or in the comment box of this document. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to indicate here if English language Translation is attached.